

Title (en)

COMMUNICATION DEVICE AND ACTIVE CABLE

Title (de)

KOMMUNIKATIONSVORRICHTUNG UND AKTIVES KABEL

Title (fr)

DISPOSITIF DE COMMUNICATION ET CÂBLE ACTIF

Publication

**EP 4177711 A1 20230510 (EN)**

Application

**EP 21855976 A 20210811**

Priority

- JP 2020136672 A 20200813
- JP 2021029643 W 20210811

Abstract (en)

The communication device 111 included in the active cable comprises a controller 11, a comparator 12, a resistor 13, a voltage source 14, and a redriver 16. The comparator 12 receives the voltage value of the SBU signal line and the reference voltage value output from the voltage source 14, and compares the voltage value of the SBU signal line with the reference voltage value to detect the level of the sideband signal. The controller 11 receives the detection result of the sideband signal level from the comparator 12, and sets the redriver 16, which is an active device, to the low-power-consumption state when the sideband signal level stays at L level for a predetermined period of time or longer.

IPC 8 full level

**G06F 3/00** (2006.01); **G06F 13/38** (2006.01); **H04B 10/075** (2013.01)

CPC (source: EP KR US)

**G06F 1/266** (2013.01 - EP); **G06F 1/3209** (2013.01 - EP); **G06F 3/00** (2013.01 - KR); **G06F 13/38** (2013.01 - KR); **G06F 13/382** (2013.01 - US); **G06F 13/4068** (2013.01 - EP); **G06F 13/4282** (2013.01 - EP US); **H04B 10/075** (2013.01 - EP KR); **H04L 13/00** (2013.01 - KR); **G06F 2213/0042** (2013.01 - KR US); **H04B 10/808** (2013.01 - EP); **Y02D 10/00** (2018.01 - EP KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4177711 A1 20230510**; CN 115989470 A 20230418; JP 2022032660 A 20220225; KR 20230025471 A 20230221; TW 202223594 A 20220616; US 2023281151 A1 20230907; WO 2022034897 A1 20220217

DOCDB simple family (application)

**EP 21855976 A 20210811**; CN 202180049282 A 20210811; JP 2020136672 A 20200813; JP 2021029643 W 20210811; KR 20237002223 A 20210811; TW 110129711 A 20210812; US 202118017263 A 20210811